

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1. (Currently Amended) A method for deriving a progressive scan image from an interlaced image, in which for each pixel to be inserted in a field from the interlaced image, the method performs the steps of:

a) — deriving a difference value from each pair of a set of pairs of symmetrically opposed pixels with respect to the pixel and from adjacent lines to the pixel to be inserted;

b) — determining which pair of pixels has the lowest difference value associated with it; and

e) — selecting as the value of the pixel to be inserted, the average of the pair of pixels which has the lowest difference value;

wherein the step of selecting the value of the pixel to be inserted includes comparing the average value of the pair of pixels with the lowest difference value with a range of values defined by the values of the pixels above and below the pixel to be inserted, and clamping the value of the pixel to be inserted to a point in the range in dependence on the result of the comparison.

2. (Original) A method according to claim 1 wherein each of said set of pairs of pixels is composed of one pair only.

3. (Original) A method according to claim 1 wherein each of the sets of pairs of pixels comprises pixels in a plurality of rows.

4. (Currently Amended) A method according to claim 1 wherein each of the sets of pixels comprises a plurality of pixels and has a center centre at a reference point, adjacent to the pixel to be inserted.

5. (Cancelled).

6. (Currently Amended) A method according to claim 1 including the step of first deriving average values for each pair of the set of pairs of pixels, determining which pairs have averages which fall within a range of values between the values of pixels above and below the pixel to be inserted, and in which the step of determining the pair of pixels with the lowest difference value and the step of selecting the value of the pixel to be inserted ~~steps b) and c)~~ are performed only for pixels whose averages fall within this range.

7. (Currently Amended) ~~Apparatus~~ An apparatus for deriving a progressive scan image from an interlaced image, comprising means for:

deriving a difference value from each pair of a set of pairs of symmetrically ~~app~~ opposed pixels with respect to a pixel to be inserted in the image from adjacent lines to the pixel to be inserted;

means for determining which pair of pixels has the lowest difference value associated with it; and

means for selecting as the value of the pixel to be inserted the average value of the pair of pixels which has the lowest difference value, including means for comparing the average value of the pair of pixels with a range of values defined by the values of the pixels above and below the pixel to be inserted, and means for clamping the value of the pixel to be inserted to a point in the range in dependence on the result of the comparison.